

Customer No. 00270

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| In re the Application of |) Group Art Unit: |
| |) |
| Judd et al. |) Examiner: |
| |) |
| Appln. No. 10/606,618 |) |
| |) |
| Filed: June 26, 2003 |) |
| |) |
| For: OMP85 PROTEINS OF <i>NEISSERIA</i> |) |
| <i>GONORRHOEAE</i> AND <i>NEISSERIA</i> |) |
| <i>MENINGITIDIS</i> , COMPOSITIONS |) |
| CONTAINING SAME AND METHODS |) |
| OF USE THEREOF |) |

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

Applicant submits to the Examiner the attached Form PTO/SB/08A/B document listing and this paper pursuant to 37 CFR § 1.56 and § 1.97-1.98. Form PTO/SB/08A/B and this paper identify documents previously cited in US Patent Application No. 09/994,192, filed November 26, 2001, now US Patent No. 6,610,306, issued August 26, 2003, which is enclosed herewith as document AF.

Certificate of Mailing under 37 CFR 1.8

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on 9/14/03
Janet Larson
Signature
JANET LARSON

According to 37 CFR § 1.98(d), Applicant has not enclosed copies of any US patents, publications, or other documents listed herein, which listed items were previously cited by or submitted to the US Patent and Trademark Office in prior parent US Patent Application No. 09/994,192, filed November 26, 2001, now US Patent No. 6,610,306 issued August 26, 2003. The prior parent patent application is relied upon herein for an earlier priority date under 35 USC § 120.

This Information Disclosure Statement is submitted less than three months from the filing date of this application and before the receipt of a first Office Action on the merits. Therefore, no fees are believed due.

The Director is hereby authorized to charge any deficiency in any fees due with the filing of this paper or credit any overpayment in any fees to our Deposit Account Number 08-3040.

REMARKS

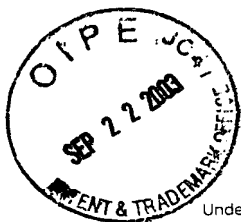
The month of publication for documents AO, BC, BG, BM, BQ, and BY could not be determined. The years of publication for these documents are sufficiently earlier than the effective US filing date and/or the foreign priority date of the present application so that the particular months of publication of the documents is not in issue (MPEP 609).

The Examiner is respectfully requested to consider the enclosed documents identified in this paper and in the attached Form PTO/SB/08A/B during the course of examination of this application.

Respectfully submitted,

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Attorneys for Applicant

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PTO/SB/08a (06-03)
Approved for use through 4/30/2003. OMB 0651-0031
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| Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary) | | | | Complete if Known | |
| | | | | Application Number | 10/606,618 |
| | | | | Filing Date | June 26, 2003 |
| | | | | First Named Inventor | Judd et al. |
| | | | | Group Art Unit | |
| Examiner Name | | | | | |
| Attorney Docket Number | UM/SBC147BUSA | | | | |
| Sheet | 1 | of | 6 | | |

| U.S. PATENT DOCUMENTS | | | | | |
|-----------------------|-----------------------|--|--------------------------------|---|---|
| Examiner Initials* | Cite No. ¹ | Document Number | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| | | Number-Kind Code ² (if known) | | | |
| | AA | US-5,912,336-B1 | 06-15-1999 | SPARLING | |
| | AB | US-5,698,438-B1 | 12-16-1997 | STOJILJKOVIC | |
| | AC | US-5,834,591-B1 | 11-10-1998 | NORMARK | |
| | AD | US-5,708,155-B1 | 01-13-1998 | POTTER | |
| | AE | US-6,197,301-B1 | 03-06-2001 | FLAVELL | |
| | AF | US-6,610,306-B1 | 08-26-2003 | JUDD | |

| FOREIGN PATENT DOCUMENTS | | | | | | |
|--------------------------|-----------------------|--|--------------------------------|---|--|----------------|
| Examiner Initials* | Cite No. ¹ | Foreign Patent Document | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T ⁶ |
| | | Country Code ³ - Number ⁴ -Kind Code ⁵ (if known) | | | | |
| | AG | WO-98/21333-A2 | 05-22-1998 | PULST | | |
| | AH | WO-92/03467-A1 | 03-05-1992 | SPARLING | | |
| | AI | EP-474,313-A2 | 03-11-1992 | RODRIGUEZ | | |
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| Sheet | 2 | of | 6 |

| NONPATENT LITERATURE DOCUMENTS | | | |
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| Examiner Initials* | Cite No. ¹ | Include the name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item, (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published | T ² |
| | AJ | FLACK et al., "The Sequencing of the 80-kDA D15 Protective Surface Antigen of <i>Haemophilus influenzae</i> ", Gene, 156:97-99 (April 4, 1995) | |
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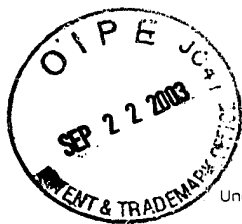
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| | | | | Group Art Unit | |
| | | | | Examiner Name | |
| Sheet | 3 | of | 6 | Attorney Docket Number | UM/SBC147BUSA |

| NONPATENT LITERATURE DOCUMENTS | | | |
|--------------------------------|-----------------------|---|----------------|
| Examiner Initials* | Cite No. ¹ | Include the name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item, (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published | T ² |
| | AT | KOSKI et al., "Isolation, Cloning, and Primary Structure of a Cationic 16-kDa Outer Membrane Protein of <i>Salmonella typhimurium</i> ", J. Biol. Chem., 264(32):18973-18980 (November, 1989) | |
| | AU | FLEISCHMANN et al., "Whole-Genome Random Sequencing and Assembly of <i>Haemophilus influenzae</i> Rd", Science, 269:496-512 (July, 1995) | |
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| | BA | LAEMMLI et al., "Cleavage of Structural Proteins During the Assembly of the Head of Bacteriophage T4", Nature, 227:680-685 (August, 1970) | |
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|--------------------|-----------------------|---|----------------|
| | BC | MOORE, "Preparation and Analysis of DNA", in <u>Current Protocols in Molecular Biology</u> , F.M. Ausubel et al., (eds), New York, John Wiley and Sons, Supplement 25, 2.1.1 - 2.1.3 (1995) | |
| | BD | SOUTHERN, "Detection of Specific Sequences Among DNA Fragments Separated by Gel Electrophoresis", J. Mol. Biol., 98:503-517 (November 5, 1975) | |
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| | BF | MANNING et al., "Omp85 Proteins of <i>Neisseria gonorrhoeae</i> and <i>Neisseria meningitidis</i> are Similar to <i>Haemophilus influenzae</i> D-15-Ag and <i>Pasteurella multocida</i> Oma87", Microbial Pathogenesis, 25:11-21 (July, 1998) | |
| | BG | RESCHKE et al., "Characterization of an 96 kDa Outer Membrane Protein of <i>Neisseria gonorrhoeae</i> Having Homology with the D15 Surface Protective Antigen of <i>Haemophilus influenzae</i> ", in <u>Pathogenic Neisseria</u> , W. Zollinger et al. (eds), p. 44, NIH, Bethesda, MD (1996) | |
| | BH | COHEN et al., "Mucosal Infection with <i>Neisseria gonorrhoeae</i> , Bacterial Adaptation and Mucosal Defenses", J. Clin. Invest., 89:1699-1705 (June, 1992) | |
| | BI | KANEKO et al., "Sequence Analysis of the Genome of the Unicellular <i>Cyanobacterium synechocystis</i> sp. Strain PCC 6803. II. Sequence Determination of the Entire Genome and Assignment of Potential Protein-Coding Regions", DNA Research, 3:109-136 (June 30, 1996) | |
| | BJ | MANNING et al., " <i>Neisseria gonorrhoeae</i> Outer Membrane Protein (omp85) Gene, Complete cds", EMPRO Database Accession Number U81959 (February 22, 1997) | |
| | BK | MANNING et al., " <i>Neisseria meningitidis</i> Outer Membrane Protein (omp85) Gene, Complete cds" EMPRO Database Accession Number AF021245 (October 3, 1997) | |

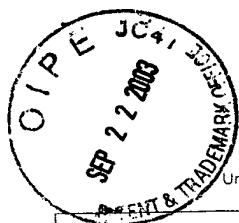
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| | BL | UHLEN et al., "Gene Fusion Vectors Based on the Gene for <i>Staphylococcal</i> Protein A", <i>Gene</i> , 23(3):369-378 (September, 1983) (Abstract) | | |
| | BM | HOUGHTON et al., "Relative Importance of Position and Individual Amino Acid Residues in Peptide Antigen-Antibody Interactions: Implications in the Mechanism of Antigenic Drift and Antigenic Shift", in <i>Vaccines</i> , pp. 21-25, F. Brown et al., (eds), Cold Spring Harbor Laboratory (1986) | | |
| | BN | LEWIS et al., "Identification of an Iron-Regulated Outer Membrane Protein of <i>Neisseria meningitidis</i> Involved in the Utilization of Hemoglobin Complexed to Haptoglobin", <i>J. Bacteriology</i> , 177(5):1299-1306 (March, 1995) | | |
| | BO | LEWIS et al., "Molecular Characterization of hpuAB, the Haemoglobin-Haptoglobin-Utilization Operon of <i>Neisseria meningitidis</i> ", <i>Molecular Microbiology</i> , 23(4):737-749 (February, 1997) | | |
| | BP | BLASIUS et al., "Two Distinct Outer Membrane Serotype Subcomplexes of <i>Neisseria meningitidis</i> Serogroup A", <i>Infection and Immunity</i> , 58(6):2008-2010 (June, 1990) | | |
| | BQ | FERREIROS et al., "Analysis of the Molecular Mass Heterogeneity of the Transferring Receptor of <i>Neisseria meningitidis</i> and Commensal <i>Neisseria</i> ", <i>FEMS Microbiology Letters</i> , 83:247-254 (1991) | | |
| | BR | DYER et al., "Isolation by Streptonigrin Enrichment and Characterization of a Transferrin-Specific Iron Uptake Mutant of <i>Neisseria meningitidis</i> ", <i>Microbial Pathogenesis</i> , 3:351-363 (November, 1987) | | |
| | BS | ANDERSON et al., "Gonococcal Transferrin-Binding Protein 2 Facilitates but is not Essential for Transferrin Utilization", <i>J. Bacteriology</i> , 176(11):3162-3170 (June, 1994) | | |
| | BT | LEGRAIN et al., "Cloning and Characterization of <i>Neisseria meningitidis</i> Genes Encoding the Transferrin-binding Proteins Tbp1 and Tbp2", <i>Gene</i> , 130:73-80 (August 16, 1993) | | |

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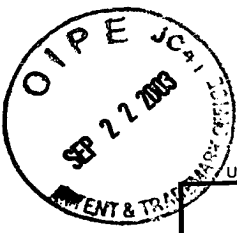


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ENCLOSURES (check all that apply)

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SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

| | |
|-------------------------|----------------------------------|
| Firm or Individual Name | Mary E. Bak HOWSON AND HOWSON |
| Signature | <i>Mary E. Bak</i> |
| Date | September 15, 2003 |

CERTIFICATE OF TRANSMISSION/MAILING

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